MiCC Enterprise Port Numbers

1. TCP and UDP Port Number Overview

MiCC Enterprise software
Other Mitel applications
Non-Mitel applications
Services that are not accessed over the network because the connecting application is always as the same host as the application listing to the port.

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
CMG Server	CMG Directory search service	TCP	80	MiCC Agent	HTTP	Y - MiCC Enterprise Setup
BluStar Web Server	BluStar Web Service for presence	TCP	8002	MiCC Agent	HTTP	Y - MiCC Enterprise Setup
Desk phone 675xi	Call setup order from application	TCP	80	MiCC Agent	HTTP	N
ELM	ELM	TCP	2580	MiCC Enterprise server, OAS	Proprietary	Y – at installation
MiCC Agent	Softphone – Call control	TCP	49152 – 65535[3]	Typically an MX-ONE TSE	SIP	N

[1] Default port number if configurable.

[2] The protocol that UDP or TCP carries. This may in turn carry additional protocols.

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
	and other SIP services					
MiCC Agent	Softphone – Media transmission	UDP	40000 - 42000[4]	MX-ONE Gateway or other VoIP endpoint.	RTP	N
MS SQL Server	SQL	TCP	1433	OAS MiCC Enterprise server DBMT	-	Y – With Microsoft's tools
OAS	Application Link	TCP	2555	NRM of the OAS – may be deployed on different host	CSTA	Y – OAS Management Console
OAS	Daemon	TCP	2557	OAS Services – these can be distributed over multiple hosts.	Proprietary	N
OAS	Configuration Service	TCP	2558	OAS Management Console MiCC Enterprise Services	Proprietary	N
OAS	Start Stop Service	TCP	2559	OAS Services – these can be distributed over multiple hosts.	Proprietary	Y – OAS Management Console

[3] Port 5060 is used for registering the SIP extension. This value is configurable. The port used for SIP signaling is dynamically selected from the range specified.

[4] Port number is not configurable. Should port 40000 be taken, MiCC Agent increments by 2 and try the next port number. There is no upper port number limit, but during normal conditions it is unlikely that the port number will exceed 40020, unless some other application has taken several ports in the range between 40000 and 40020.

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
OAS	Event Channel Service	TCP	2560	OAS Services – these can be distributed over multiple hosts.	Proprietary	Y – OAS Management Console
OAS	Network Resource Manager	TCP	2562	OAS Services – these can be distributed over multiple hosts MiCC Enterprise Services	CSTA[5]	Y – OAS Management Console
OAS	Performance Data Service	TCP	2561	OAS Services – these can be distributed over multiple hosts	Proprietary	Y – OAS Management Console
OAS - X-Link	N	TCP	8882	X-Link CSTA Phase III call control server runs on MX-ONE Telephony Server	CSTA	Y – OAS Management Console **Note**: X- Link call control server status cannot be viewed in OMT
OAS Media Server	Media ports of the IP Media Server (Receiving)	UDP	Configurable[6]	MX-ONE Gateway Other VoIP end-points	RTP	Y – OAS Management Console
OAS Media Server	Media ports of the IP Media Server (Sending)	UDP	Not Configurable	MX-ONE Gateway Other VoIP end-points	RTP	N
OAS Media Server	IP Media Server	TCP	2564	OAS Services	Proprietary	N
OAS Media Server	VoIP Call Control	TCP	9000	MX-ONE Telephony Server	H.225.0 H.245	Y – OAS Management Console

[5] With extensions.

[6] For calculations of Media Ports, see OAS Software Configuration, 1/1543-FAS 104 55

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
OAS	Daemon	TCP	8000[7]	OAS Services	Proprietary	N
Script Manager	Service Router	TCP	2750	Script Manager Services	Proprietary	Y - Script Manager Configuration
Script Manager	Debug Router	TCP	2751	Script Manager Services	Proprietary	Y - Script Manager Configuration
Script Manager	AppContactCenterServer	TCP	2752	Script Manager Services	Proprietary	Y - Script Manager Configuration
Script Manager	AppMediaServer	TCP	2753	OAS Script Manager Services	Proprietary	Y - Script Manager Configuration
Script Manager	AppSMSServer	TCP	2755	Script Manager Services (on the same host) MiCC Enterprise Services	Proprietary	Y - Script Manager Configuration
Script Manager	AppDatabaseServer	TCP	2756	Script Designer Flow Processor – on the same host	Proprietary	N
Script Manager	Script Manager Configuration	TCP	2760	Configuration Manager	DCOM	N
SIP Server (MX-ONE or other)	SIP registration and session control	TCP	5060	MiCC Agent	SIP	Y – Configuration Manager

[7] Dynamic port starts with 8000 and is incremented by 1 for each new service. If IP Media Server is restarted it will always start with the next port, for example 8001, 8002. If OAS is restarted the port is reset to 8000.

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
MiCC Enterprise	Multi-purpose web services	TCP	80	Configuration Manager Report Manager Information Manager DBMT Mitel Scheduler MiCC Enterprise ACD MiCC Enterprise SAP ICI driver	HTTP	Y – MiCC Enterprise Setup
MiCC Enterprise	Broker Service	TCP	2600	MiCC Agent Configuration Manager MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Agent Service	TCP	2601	MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Configuration Service	TCP	2603[8]	MiCC Enterprise services – often on the same host Configuration Manager	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Configuration Service	TCP	2604[9]	Configuration Manager MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Configuration Web Service	TCP	2523	Configuration API from a TCP/IP client	TCP/IP	Y – Edit ConfigWcfWindowsService.exe.config in ..\Services\bin folder

[8] Listed as Request Channel Port

[9] Listed as ”Consumer Channel Port”

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
MiCC Enterprise	Configuration Web Service	TCP	2524	Configuration API from a WCF SOAP client	HTTP	Y – Edit ConfigWcfWindowsService.exe.config in ..\Services\bin folder
MiCC Enterprise	Configuration Web Service	TCP	2525	Configuration API from a legacy SOAP client	HTTP	Y – Edit ConfigWcfWindowsService.exe.config in ..\Services\bin folder
MiCC Enterprise	Event Service	TCP	2605[10]	MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Router Service	TCP	2606[11]	MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Report Service	TCP	2610[12]	MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Router Service	TCP	2611[13]	MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Campaign Service	TCP HTTP	2612 12612	Configuration Manager MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	MiCC Agent Service	TCP HTTP HTTP	2613 12613 12618	MiCC Agent MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup

[10] Listed as "Status Event Channel"

[11] Listed as "Activity Port"

[12] Listed as "Report Request Port"

[13] Listed as "Route Manager Interface"

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
MiCC Enterprise	Call Control Service	TCP HTTP TCP HTTP	2614 12614 2618 12619	MiCC Agent MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	SMS Gateway Service	TCP	2770	MiCC Enterprise services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Real Time Interface (Master RTI)	TCP	7500	The RTI service on other MiCC Enterprise systems.	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Open Media Service	HTTP	12615	3rd party application	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Session Information Service	HTTP	12620	3rd party application	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	E-mail Service	TCP HTTP	2617 12617	MiCC Agent MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
MiCC Enterprise	Chat Service	TCP HTTP	2616 12616	MiCC Agent MiCC Enterprise Services – often on the same host	Proprietary	Y – MiCC Enterprise Setup
TAS	SIP registration and session control	TCP UDP	5060	MiCC Agent, connected call manager, ACS media server	SIP	Y – TAS Config
TAS	CSTA monitoring and requests	TCP	8732	MiCC Enterprise Call Control Service	CSTA III	Y – TAS Config
ACS	Media Server: SIP registration and session control	TCP UDP	5065	TAS	SIP	Y – TAS Config

TCP or UDP Server Side	Service	Type	Server Port #[1]	Client (or Sender) Side	Protocol[2]	Configurable / With
ACS	Media Server: Media ports of the Media Server	UDP	Configurable	Call Manager Gateway Other VoIP end-points	RTP	Y – TAS Config

2. IIS Web Service Connections

MiCC Enterprise Web services and applications connect to various back-end services. If the Web services are installed in a DMZ, the ports in the firewall between the Web server and MiCC Enterprise server must be opened. The actual port numbers to be opened is dependent on the configured port for the service. The following table lists the connections made between the Web services and services installed on the MiCC Enterprise server.

Web Service	MiCC Enterprise Service	Channel	Type
CustomerChat	Broker Service		TCP
	Chat Service		TCP
RTI	SQL Server		TCP
scheduler	Configuration Service	Request	TCP
		Consumer	TCP
	SQL Server		TCP
seceventws	Broker Service		TCP
	Configuration Service	Request	TCP
		Consumer	TCP
	Campaign Service		TCP
	Event Service		TCP
seclogonws	Broker Service		TCP

	Configuration Service	Request	TCP
		Consumer	TCP
secreportws	Broker Service		TCP
	Configuration Service	Request	TCP
		Consumer	TCP
	Report Service		TCP
secsapicidriver	Broker Service		TCP
	Real Time Interface Service		TCP
	Agent Service		TCP
SolidusACD	Agent Service		TCP
WebAgent (See Note 7)	Broker Service		TCP
	Call Control Service		TCP
	MiCC Agent Service		TCP
WebApps	Broker Service		TCP
	Configuration Service	Request	TCP
		Consumer	TCP
	Agent Service		TCP
	Real Time Interface Service		TCP
WebCallback	SQL Server		TCP

Note 1: MiCC Enterprise applications use additional services that are part of the typical IT and network infrastructure, such as DNS and file services. These services are not listed above.

Note 2: For information on port numbers on the MX-ONE Telephony Server and Gateway and on Mitel IP telephones, refer to the MX-ONE document “System Planning”.

Note 3: The above does not cover network traffic generated by other software based on the MiCC Enterprise and OAS APIs.

Note 4: Product documentation lists additional Script Manager Services that do not use TCP/IP: FlowProcessor & Admin Service.

Note 5: The default protocol when communicating with the Web Server is HTTP. Secure HTTPS may be used by setting the "Use Https" option on the Web Server Location page in the MiCC Enterprise Setup Utility. HTTPS traffic must be enabled on the IIS Web server. The default communication for MiCC Agent and Report Manager uses TCP when connecting to the server WCF services. For client installations that are external to the local Intranet, HTTP or HTTPS may be used. The HTTP(s) ports for the WCF services must be opened on the server firewall. The ports should be opened to allow HTTP(s) traffic. The protocol may be changed to HTTP or HTTPS by setting the "WCF Client Protocol" option on the Web Server Location page in the MiCC Enterprise Setup Utility. This must be done on each external client that is to use the HTTP or HTTPS protocol.

Note 6: Secure HTTPS is not supported with the MiCC Enterprise Configuration Web Service.

Note 7: Web Agent connections to back-end services are made from client-side script running in the user's browser. The connections must be accessible from the browser computer.